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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/653,176	09/03/2003	Byeong Yong Lee	7989.011.00-US	3030

7590 10/18/2004

MCKENNA LONG & ALDRIDGE LLP
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EXAMINER

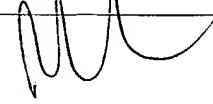
LEUNG, PHILIP H

ART UNIT	PAPER NUMBER
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3742

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/653,176	Applicant(s) LEE ET AL. 	
	Examiner Philip H Leung	Art Unit 3742	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) 11-21 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Applicant's election without traverse of Figures 3 and 4, claims 1-10 in the reply filed on 10-5-2004 is acknowledged.
2. Claims 11-21 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 10-5-2004.
3. The drawings filed 9-3-2003 are acceptable.
4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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5. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Admitted Prior Art as shown in Figure 2 (hereinafter, APA), in view of Wanat et al (US 5,802,957) or Hardin et al (US 6,123,012).

The Admitted Prior Art as shown in Figure 2 and discussed in paragraphs [0008]-[0014] shows a microwave oven with a toaster including “a control panel 26 in an upper part of front surface of the cavity door 24, provided with a first selection part 26a for selecting functions of the microwave oven, and a second selection part 26b for selecting a toaster function, and a display part 26c for displaying an operation state for a key input at the first selection part 26a or the second selection part 26b”. Therefore APA carries out “a function of a signal received from the first or second selection part 26a or 26b of the control panel 26, for toasting the bread according to a kind of bread and a level of bread toasting the user selected”. Therefore APA shows every feature as claimed except for the use of a temperature sensor for controlling the time of toasting according to the inside temperature of the toaster chamber. Wanat shows that it is well known in art of toasters to use a thermal sensor (76) positioned at the toaster chamber 30 to adjust the length of the toasting cycle to compensate the varying temperature in the toasting chamber with the use of a processor unit 70 (see Figures 3 and 4, col. 2, line 54 – col. 3, line 20 and col. 6, line 37 – col. 7, line 20). Hardin also shows that it is well known in the art of toasters that the toasting time is a function of line voltage, the darkness control setting, the food select setting, the warm setting and the frozen setting and the temperature of the toaster chamber wherein the temperature is sensed with the use of a temperature detector 81 in the toaster cavity 22 (see Figures 3 and 8 and col. 7, line 38 – col. 8, line 39). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify APA to position

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a thermal sensor in the toaster chamber to monitor the temperature of the toaster chamber to adjust the time period of a toasting cycle for better heating control to achieve a better toasted product, in view of the teaching of Wanat or Hardin.

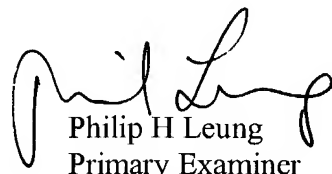
6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Choi et al (US 6,539,840) and Hishiyama (JP 1-305231) are further cited to show microwave ovens with a toaster having similar claimed features.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip H Leung whose telephone number is (703) 308-1710.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on (703) 305-5766. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Philip H Leung
Primary Examiner
Art Unit 3742

P.Leung/pl
10-15-2004